



PATENT
Customer No. 22,852
Attorney Docket No. 07481.0018

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
)
Kenichi Aoyagi et al.) Group Art Unit: 1774
)
Application No.: 09/955,178) Examiner: C. S. Thompson
)
Filed: September 19, 2001)
)
For: TRANSPORT MEMBER)
)

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Commissioner for Patents
Washington, DC 20231

Sir:

APPENDIX TO AMENDMENT

IN THE CLAIMS:

1. (Amended) A transport member [essentially] consisting essentially of
fiber-reinforced plastic,

wherein said transport member is used for transporting an article to be
transported, and

wherein said fiber-reinforced plastic comprises:

at least one first layer containing a unidirectional reinforced fiber, oriented by -20°
to +20° with respect to a longitudinal direction of said transport member, having a
tensile elasticity of 500 to 1000 GPa; and

FINNEGAN
HENDERSON
FARABOW
GARRETT &
DUNNER LLP

1300 I Street, NW
Washington, DC 20005
202.408.4000
Fax 202.408.4400
www.finnegan.com

at least one second layer containing a unidirectional reinforced fiber, oriented by +75° to +90° [and/or] or -75° to -90° with respect to said longitudinal direction of said transport member, having a tensile elasticity of 200 to 400 GPa.

2. (Amended) A transport member according to claim 1, wherein said fiber-reinforced plastic further comprises at least one third layer, said at least one third layer containing a unidirectional reinforced fiber, oriented by +30° to +60° [and/or] or -30° to -60° with respect to said longitudinal direction of said transport member, having a tensile elasticity of 500 to 1000 GPa.

3. (Amended) A transport member comprising skin and core layers [essentially] consisting essentially of a fiber-reinforced plastic;
wherein said transport member is used for transporting an article to be transported, and

wherein said skin layer comprises at least two first layers containing a unidirectional reinforced fiber, oriented by -20° to +20° with respect to a longitudinal direction of said transport member, having a tensile elasticity of 500 to 1000 GPa.

4. (Amended) A transport member according to claim 3, wherein said core layer comprises at least two second layers containing a unidirectional reinforced fiber, oriented by +75° to +90° [and/or] or -75° to -90° with respect to said longitudinal direction of said transport member, having a tensile elasticity of 200 to 400 GPa; or at least one third layer containing a unidirectional reinforced fiber, oriented by +30° to +60°

[and/or] or -30° to -60° with respect to said longitudinal direction of said transport member, having a tensile elasticity of 500 to 1000 GPa.

5. (Amended) A transport member comprising laminated skin and core layers made of carbon-fiber reinforced plastic[;] .

wherein said transport member is used for transporting an article to be transported, and

wherein said skin layer comprises:

a first layer containing a first carbon fiber, oriented by an angle range of -20° to +20° with respect to a longitudinal direction of said transport member, having a tensile elasticity of 500 to 1000 GPa; and

a second layer containing a second carbon fiber, oriented by an angle range of +75° to +90° [and/or] or -75° to - 90° with respect to said longitudinal direction, having a tensile elasticity of 200 to 400 GPa.

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HENDERSON
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GARRETT &
DUNNER LLP

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